



Product designation

Product type designation

Type

DIN rail module number

Three-phase
energy meters
DMED301
Three-phase +
neutral
4

Auxiliary supply U_s

Operational frequency

min	Hz	50
max	Hz	60

Power consumption

Max	VA	20
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Power dissipation Max

W	1.35
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Measuring voltage inputs

Rated voltage (U_e)

phase-phase	VAC	380...415
phase-neutral	VAC	220...240

Operating voltage range

phase-phase	VAC	323...456
phase-neutral	VAC	187...264

Connection method

Direct

Current

IEC maximum (I_{max})

A	80
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IEC minimum (I_{min})

A	0.5
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IEC rated (I_{ref-Ib})

A	10
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IEC start (I_{st})

mA	60
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Transition (I_{tr})

A	1
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Accuracy

Active energy	Class 1 (IEC/EN 62053-21)
Reactive energy	Class 2 (IEC/EN 62053-23)

RS485 serial interface

Baud rate

bps	Programmable 1200...38400
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Insulations

Rated insulation voltage U_i IEC/EN

V	250
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Rated impulse withstand voltage U_{imp}

kV	6
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Operating frequency withstand voltage

kV	4
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Mechanical features

Housing type

Polyamide

Terminals type

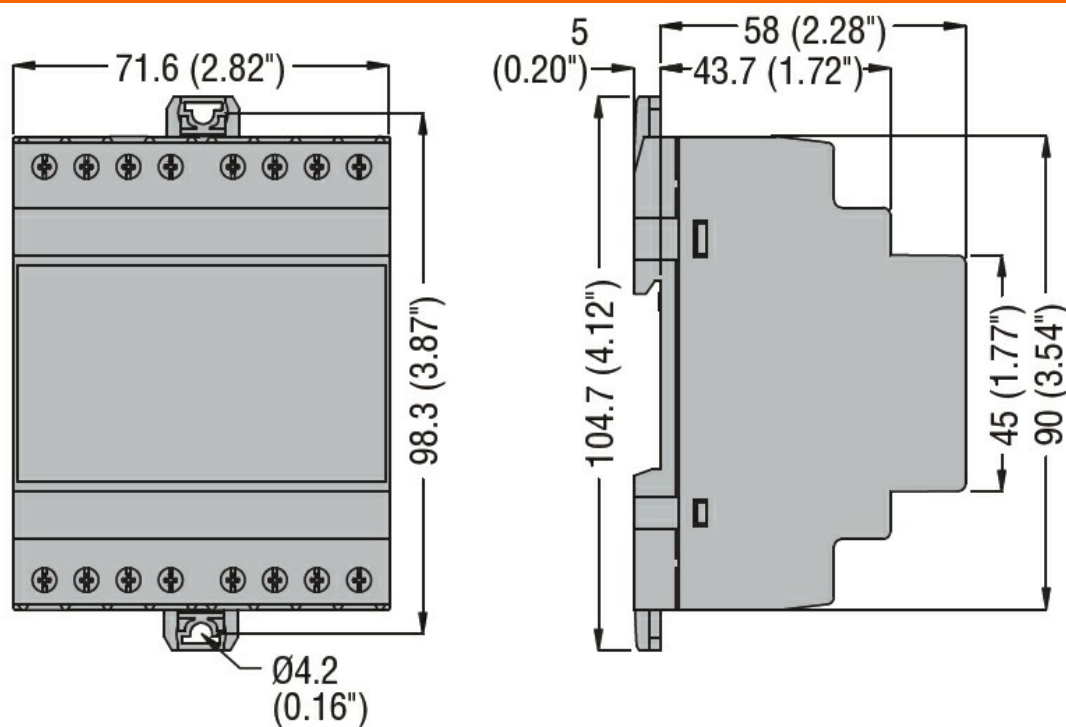
Fixed

Conductor cross section

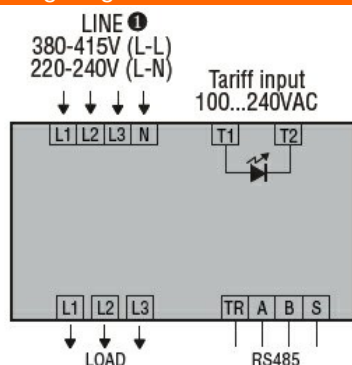
min	mm ²	2.5
Max	mm ²	25
min	AWG	14

	Max	AWG	4
Tightening torque (Max)		Nm	2
		lbin	17.7
Fixing			Din rail
Weight		g	360
Ambient conditions			
Temperature			
Operating temperature			
	min	°C	-25
	max	°C	+55
Storage temperature			
	min	°C	-25
	max	°C	+70
Relative humidity		%	<80
Maximum Pollution degree			2

Dimensions



Wiring diagrams



Certifications and compliance

Compliance

IEC/EN 50470-1

IEC/EN 61010-1

IEC/EN 61010-2-030

Certificates

EAC

RCM

ETIM classification

ETIM 8.0

EC001506 -
Kilowatt-hour
meter